

In the Claims

Please amend claims 1, 5, 9, 12, and 18-19 as shown herein.

Claims 1-20 are pending and are listed following:

5 1. (currently amended) A method for calibrating a printing device, comprising the following steps:

(a) performing an on-media calibration, including the following substeps:

(a.1) placing colorant on print media,

10 (a.2) performing a measurement to obtain on-media calibration measured values, and

(a.3) using the on-media calibration measured values to calibrate the printing device;

15 (b) performing an off-media calibration to obtain off-media calibration measured values, the off-media calibration being performed ~~without by~~ placing colorant on other than print media;

(c) making a correlation between the on-media calibration measured values and the off-media calibration measured values; and,

20 (d) performing subsequent off-media calibrations in which the off-media calibration measured values are used along with the correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

25 2. (original) A method as in claim 1 wherein in substep (a.1) the colorant is toner.

3. (original) A method as in claim 1 wherein in substep (a.1) the colorant is ink.

4. (original) A method as in claim 1 wherein in substep (a.2) the 5 measurement is performed using one of the following:
a densitometer,
a colorimeter, and
a spectrophotometer.

10 5. (currently amended) A method as in claim 1 wherein substep (a.3) is performed by varying print parameters of the printing device until the on-media calibration measured values are substantially equal to target measure values determined during manufacture of the printing device.

15 6. (original) A method as in claim 1 wherein step (b) includes the following substeps:
(b.1) placing colorant on a transportation belt of the printing device; and,
(b.2) performing a measurement of the colorant on the transportation belt to obtain the off-media calibration measured values.

20 7. (original) A method as in claim 1 wherein in substep (a.1) colorant is placed on the print media in half-toned patches.

8. (original) A method as in claim 7 wherein step (b) includes the following substeps:

5 (b.1) placing colorant on a transportation belt of the printing device, the placed colorant being arranged in half-toned patches that correspond to the half-toned patches placed in substep (a.1); and,

(b.2) performing a measurement of the colorant on the transportation belt to obtain the off-media calibration measured values.

9. (currently amended) A self-calibrating printing device, 10 comprising:

a printer transportation belt for transporting print media; a marking engine for in the course of normal printing placing colorant on print media, the marking engine also for placing colorant on the print media during on-media calibration and for placing colorant on the printer 15 transportation belt during off-media calibration; and,

a sensing device, wherein during on-media calibration, the sensing device performs a measurement to obtain on-media calibration measured values, and wherein during ~~of media~~ off-media calibration, the sensing device performs a measurement to obtain off-media calibration measured values;

20 wherein the self-calibrating printing device uses the on-media calibration measured values to calibrate the printing device;

wherein the self-calibrating printing device makes a correlation between the on-media calibration measured values and the off-media calibration measured values; and,

25 wherein, during subsequent off-media calibrations the self-calibrating printing device uses the off-media calibration measured values along with the

correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

10. (original) A self-calibrating printing device as in claim 9
5 wherein the colorant is toner.

11. (original) A self-calibrating printing device as in claim 9
wherein the colorant is ink.

10 12. (currently amended) A self-calibrating printing device as in
claim 9 wherein the sensor comprises one of the following:
a densitometer,
a colorimeter, and
a spectrophotometer.

15 13. (original) A self-calibrating printing device as in claim 9
wherein during on-media calibration, the printing device varies print
parameters until the on-media calibration measured values are substantially
equal to target measure values.

20 14. (original) A self-calibrating printing device as in claim 9
wherein during on-media calibration, the marking engine places colorant on the
print media in half-toned patches.

15. (original) A self-calibrating printing device as in claim 14 wherein during off-media calibration, the colorant placed on the transportation belt is arranged in half-toned patches that correspond to the half-toned patches placed on the print media during on-media calibration.

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16. (original) A self-calibrating printing device as in claim 9 wherein the sensing device comprises a plurality of sensors.

17. (original) A printing device, comprising:
10 a colorant placing engine for in the course of normal printing placing colorant on print media, the colorant placing engine also for placing colorant on the print media during on-media calibration; and,

15 a sensing device, wherein during on-media calibration, the sensing device performs a measurement to obtain on-media calibration measured values;

wherein the printing device uses the on-media calibration measured values to calibrate the printing device;

20 wherein the printing device makes a correlation between the on-media calibration measured values and off-media calibration measured values calculated during an initial off-media calibration cycle; and,

wherein, during subsequent off-media calibration cycles the printing device uses the off-media calibration measured values along with the correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

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18. (currently amended) A printing device as in claim 17 wherein
the sensor comprises one of the following:

a densitometer,
a colorimeter, and
5 a spectrophotometer.

19. (currently amended) A printing device as in claim 17
wherein during on-media calibration, the printing device varies print
parameters until the on-media calibration measured values are substantially
10 equal to target measure values determined during manufacture of the printing
device.

20. (original) A printing device as in claim 17 wherein during
on-media calibration, the colorant placing engine places colorant on the print
15 media in half-toned patches.